

APPENDIX A
MARKED-UP COPY OF THE AMENDED CLAIMS
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34. The gene expression library of claim 27, 28, or 29 wherein at least one of the cDNA or genomic DNA fragments comprises nucleotide sequences that encode for proteins or fragments thereof that are involved in polyketide biosynthesis [, peptide biosynthesis, glycoside biosynthesis, aminoglycoside biosynthesis, mevalonic acid biosynthesis, or glucose transfer systems].

45. The biased combinatorial gene expression library of claim 44 wherein some of the cDNA or genomic DNA fragments are preselected by hybridization of the cDNA or genomic fragments to nucleic acid probes comprising nucleotide sequences that encode for proteins or fragments thereof that are involved in polyketide biosynthesis [, peptide biosynthesis, glycoside biosynthesis, aminoglycoside biosynthesis, mevalonic acid biosynthesis, or glucose transfer systems].

48. The biased combinatorial gene expression library of claim 44 wherein some of the cDNA or genomic DNA fragments are preselected by hybridization of the cDNA or genomic DNA fragments to nucleic acid probes comprising nucleotide sequences that encode for proteins or fragments thereof that are involved in the biosynthesis of erythromycin, actinorhodin, thiostrepton, virginiamycin, valinomycin, or actinomycin [, tetracycline, oxytetracycline, puromycin, doxorubicin, taxol, chloramphenicol, nalidixic acid, mithramycin, novobiocin, vulpinic acid, usnic acid, kainic acid, podophyllotoxin, brevitolin, camptothecin, or artemisinin].

49. The biased combinatorial gene expression library of claim 44, [45,] 46, [47,] or 48 wherein the expression constructs are contained in host cells.

50. The biased combinatorial gene expression library of claim 44, [45,] 46, [47,] or 48 wherein the expression constructs comprise a plasmid vector, a phage vector, a viral vector, a cosmid vector, or an artificial chromosome.